

Amendments to the claims:

This listing of the claims will replace all prior versions and listings of the claims in the application:

Listing of the Claims:

1. (Currently amended) An interconnect cabinet for optical fibers, comprising:
an enclosure;
a splitter mounted in the enclosure that is configured to optically couple a plurality of optical fibers to a single optical fiber and having a plurality of optical fiber connectorized pigtails extending therefrom, each of the connectorized pigtails being ~~associated with~~ optically coupled by the splitter to an optical fiber feeder cable to be coupled to a central office;
a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, ones of which are associated with respective subscriber locations; and
wherein the connectorized pigtails have a cable length sufficient to allow connection to the plurality of connection members.
2. (Original) The cabinet of Claim 1 wherein the splitter further comprises at least one input optical fiber and wherein the splitter is configured to splice the at least one input optical fiber to the plurality of connectorized pigtails.
3. (Original) The cabinet of Claim 2 further comprising an optical fiber cable from the central office coupled to the at least one input optical fiber and optical fiber cables from the subscriber locations coupled to the plurality of connection members.
4. (Original) The cabinet of Claim 2 wherein the splitter comprises an optical fiber splitter tray and wherein the enclosure is configured to receive a plurality of optical fiber splitter trays.

5. (Original) The cabinet of Claim 4 wherein the enclosure is configured to receive a plurality of termination panels.

6. (Original) The cabinet of Claim 2 wherein the termination panel is pivotally mounted in the enclosure to allow access to a front and a back side of the connection members from a front side of the enclosure.

7. (Original) The cabinet of Claim 6 wherein the termination panel comprises a front panel of a termination module and wherein the termination module further comprises a splice chamber configured to mount a plurality of splice modules adjacent a back side of the termination panel.

8. (Currently amended) The cabinet of Claim 7 wherein the splice chamber is pivotally mounted in the enclosure to provide access to the splice chamber from the front side of the enclosure and wherein the termination panel and the splice chamber are pivotally mounted in the enclosure for independent pivotal movement.

9. (Original) The cabinet of Claim 8 wherein the termination module is removably mounted in the enclosure to allow removal of the termination module through the front side of the enclosure.

10. (Original) The cabinet of Claim 8 wherein the termination module further comprises a movable cable securing member configured to receive and secure an optical fiber cable, the cable securing member having a first position aligned with a closed position of the splice chamber and a second position aligned with an open position of the splice chamber.

11. (Original) The cabinet of Claim 10 wherein the cable securing member includes an attachment member configured to receive and retain a strength member of the optical fiber cable.

12. (Currently amended) ~~[[The]]~~ An interconnect cabinet of Claim 10 for optical fibers, comprising:

an enclosure;

a splitter mounted in the enclosure and having a plurality of optical fiber connectorized pigtails extending therefrom, each of the connectorized pigtails being associated with an optical fiber feeder cable to be coupled to a central office; and

a termination module including:

a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, ones of which are associated with respective subscriber locations;

a splice chamber configured to mount a plurality of splice modules adjacent a back side of the termination panel, wherein the splice chamber is pivotally mounted in the enclosure to provide access to the splice chamber from the front side of the enclosure;

a movable cable securing member configured to receive and secure an optical fiber cable, the cable securing member having a first position aligned with a closed position of the splice chamber and a second position aligned with an open position of the splice chamber, wherein the cable securing member is detachable from the termination module to allow movement between the first position and the second position.

13. (Original) The cabinet of Claim 10 wherein the cable securing member is pivotally attached to the termination module to allow movement between the first position and the second position.

14. (Currently amended) ~~[[The]]~~ An interconnect cabinet of Claim 13 for optical fibers, comprising:

an enclosure;

a splitter mounted in the enclosure and having a plurality of optical fiber connectorized pigtails extending therefrom, each of the connectorized pigtails being associated with an optical fiber feeder cable to be coupled to a central office; and

a termination module including:

a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, ones of which are associated with respective subscriber locations;

a splice chamber configured to mount a plurality of splice modules adjacent a back side of the termination panel, wherein the splice chamber is pivotally mounted in the enclosure to provide access to the splice chamber from the front side of the enclosure;

a movable cable securing member configured to receive and secure an optical fiber cable, the cable securing member having a first position aligned with a closed position of the splice chamber and a second position aligned with an open position of the splice chamber, wherein the cable securing member is pivotally attached to the termination module to allow movement between the first position and the second position and wherein the cable securing member pivots about a neutral axis having an arc length for a cable secured therein that is substantially the same in the first and the second positions to limit loads on the cable secured therein during movement of the cable securing member between the first and second positions.

15. (Original) The cabinet of Claim 8 wherein the enclosure is configured to receive a plurality of termination modules and a plurality of splitters.

16. (Currently amended) ~~[[The]]~~ An interconnect cabinet for optical fibers of Claim 8, comprising:

an enclosure;

a splitter mounted in the enclosure and having a plurality of optical fiber connectorized pigtails extending therefrom, each of the connectorized pigtails being associated with an optical fiber feeder cable to be coupled to a central office;

a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, ones of which are associated with respective subscriber locations;

a splice chamber configured to mount a plurality of splice modules adjacent a back side of the termination panel; and

wherein the termination panel and the splice chamber are pivotally mounted in the enclosure for independent pivotal movement.

17. (Original) The cabinet of Claim 2 further comprising a spooling system mounted in the enclosure and configured to receive and store excess cable length of the plurality of connectorized pigtails.

18. (Original) The cabinet of Claim 17 wherein the spooling system comprises a plurality of spools displaced from each other in the enclosure by a distance corresponding to a distance between a first and last row of connection members on the termination panel.

19. (Original) The cabinet of Claim 18 wherein a distance between a first and a last of the spools is about half the distance between first and last rows of connection members on the termination panel.

20. (Original) The cabinet of Claim 19 wherein the spooling system further comprises an initial loop spool configured to receive all the connectorized pigtails and provide the connectorized pigtails a common entry point to the spooling system.

21. (Original) The cabinet of Claim 19 wherein the spools comprise half-moon spools.

22. (Original) The cabinet of Claim 2 wherein the plurality of connectorized pigtails have substantially the same length.

23. (Currently amended) ~~[[The]]~~ An interconnect cabinet for optical fibers of Claim 2, comprising:

an enclosure;

a splitter mounted in the enclosure and having a plurality of optical fiber connectorized pigtails extending therefrom, each of the connectorized pigtails being associated with an optical fiber feeder cable to be coupled to a central office;

a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, ones of which are associated with respective subscriber locations; and wherein the connectorized pigtails have a cable length sufficient to allow connection to the plurality of connection members; and

wherein the enclosure comprises a double-walled housing configured to provide passive cooling.

24. (Original) The cabinet of Claim 2 wherein the termination module is removably mounted in the enclosure to allow removal of the termination module through the front side of the enclosure.

25. Canceled.

26. (Currently amended) The termination module of Claim 28 [[25]] wherein the connection members include a front socket configured to receive a mating optical fiber plug connector and a back socket configured to receive a mating optical fiber plug connector to provide an optical coupling between the mating optical fiber plug connectors received therein.

27. Canceled.

28. (Currently amended) [[The]] An optical fiber termination module of Claim 27 comprising:

a mounting member adapted to be mounted to an interconnect cabinet for optical fibers;

a bulkhead termination panel pivotally mounted to the mounting member to allow access to a back side of the termination panel covered by the mounting member;

a plurality of optical fiber connection members mounted in the termination panel; and a splice chamber mounted to the mounting member proximate the back side of the termination panel, the splice chamber being configured to receive at least one splice module;

wherein the splice chamber is pivotally mounted to the mounting member for pivotal movement separately from the termination panel.

29. (Original) The termination module of Claim 28 wherein a front side of the splice chamber faces the termination panel and the at least one splice module is received on an opposite, back side of the splice chamber and wherein the at least one splice module is accessible in an open position of the splice chamber.

30. (Original) The termination module of Claim 29 wherein the at least one splice module comprises a splice tray.

31. (Original) The termination module of Claim 29 further comprising the at least one splice module and a plurality of connectorized pigtails extending from the at least one splice module to the connector members on a back side of the termination panel.

32. (Original) The termination module of Claim 31 wherein the splice chamber further comprises an optical fiber slack receiving region positioned between the at least one splice module and the termination panel.

33. (Original) The termination module of Claim 29 further comprising mounting means for removably mounting the termination module in an optical fiber interconnect cabinet.

34. (Original) The termination module of Claim 28 further comprising a movable cable securing member configured to receive and secure an optical fiber cable, the cable securing member having a first position aligned with a closed position of the splice chamber and a second position aligned with an open position of the splice chamber.

35. (Original) The termination module of Claim 34 wherein the cable securing member includes an attachment member configured to receive and retain a strength member of the optical fiber cable.

36. (Original) The termination module of Claim 34 wherein the cable securing member is detachable from the termination module to allow movement between the first position and the second position.

37. (Original) The termination module of Claim 34 wherein the cable securing member is pivotally attached to the termination module to allow movement between the first position and the second position.

38. (Original) The termination module of Claim 37 wherein the cable securing member pivots about a neutral axis having an arc length for a cable secured therein that is substantially the same in the first and the second positions to limit loads on the cable secured therein during movement of the cable securing member between the first and second positions.

39. (Currently amended) A method for configuring an interconnect cabinet for optical fibers for outside plant management of subscriber optical fiber connectivity, comprising:

providing a termination panel in the cabinet having a plurality of optical fiber connection points and a splitter in the cabinet that is configured to optically couple a plurality of optical fibers to a single optical fiber and having a plurality of optical fiber connectorized pigtails extending therefrom, the connectorized pigtails have a cable length sufficient to allow connection to the plurality of connection points;

optically splicing the connectorized pigtails in the splitter to an optical fiber feeder cable coupled to a central office; and

optically splicing the plurality of optical fiber connection points to respective subscriber locations.

40. (Currently amended) The method of Claim 39 further comprising selectively directly coupling ones of the connectorized pigtails to ones of the connection points to provide service to designated ones of the subscriber locations.

41. (Original) The method of Claim 40 further comprising selectively decoupling one of the connectorized pigtails from one of the connection points to terminate service for a designated one of the subscriber locations.

42. (Original) The method of Claim 40 wherein the cabinet further includes a plurality of fiber management spools and wherein selectively coupling ones of the connectorized pigtails further comprises routing the ones of the connectorized pigtails around selected ones of the fiber management spools based on a location of a connection point to which they are to be coupled.

43. (Original) The method of Claim 40 wherein optically splicing the connectorized pigtails comprises optically splicing the pigtails to an optical fiber feeder cable coupled to a central office in a splice closure outside of the interconnect cabinet.

44-45. Canceled.

46. (Currently amended) An [[The]] interconnect cabinet of Claim 45, comprising:
an enclosure;
a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, ones of which are associated with respective subscriber locations or are associated with an optical fiber feeder cable to be coupled to a central office;
at least one jumper cable for cross-connecting ones of the connection members; and
a spooling system mounted in the enclosure and configured to receive and store excess cable length of the at least one jumper cable;

wherein the at least one jumper cable has a cable length sufficient to allow cross-connecting of the plurality of connection members;

wherein the spooling system comprises a plurality of spools displaced from each other in the enclosure by a distance corresponding to a distance between a first and last row of connection members on the termination panel; and

wherein a distance between a first and a last of the spools is about half the distance between first and last rows of connection members on the termination panel.

47. (Original) The cabinet of Claim 46 wherein the spooling system further comprises a mid-point spool.

48. (New) An interconnect cabinet for optical fibers, comprising:

an enclosure;

a splitter mounted in the enclosure that is configured to optically couple a plurality of optical fibers to a single optical fiber;

an optical fiber feeder cable to be coupled to a central office extending into the splitter;

a plurality of optical fiber connectorized pigtails extending from the splitter, each of the connectorized pigtails being optically coupled to the optical fiber feeder cable in the splitter; and

a termination panel mounted in the enclosure and having a plurality of optical fiber connection members, a backside of ones of the connection members being associated with respective subscriber locations and a front side of the ones of the connection members being configured to receive the connectorized pigtails to selectively optically couple the optical fiber feeder cable and the respective subscriber locations when the connectorized pigtails are coupled to the front sides of the ones of the connection members.

49. (New) The cabinet of Claim 48, wherein the optical fiber feeder cable extends from the splitter to a backside of an optical fiber connection member positioned in the termination panel, the cabinet further comprising:

In re: Allen et al.
Serial No.: 10/799,328
Filed: March 12, 2004
Page 12

a first splice module positioned in the enclosure and having a connectorized pigtail extending therefrom and coupled to a front side of the optical fiber connection member having the optical fiber feeder cable coupled to the backside thereof; and

a second splice module positioned in the enclosure and having a plurality of optical fibers extending therefrom and coupled to the backside of the ones of the plurality of connection members.